

COOLING DEVICE FOR WATER-COOLED INTERNAL COMBUSTION ENGINE

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Abstract

PROBLEM TO BE SOLVED: To reduce number of component items and working man-hours in mounting and attaching operation for a cooling water pump, reduce size and weight of the device, and reduce a manufacturing cost.

SOLUTION: A cooling device for a water-cooled internal combustion engine is provided as follows: a cam shaft 18 is arranged on an upper side of a cylinder head 5 for driving a valve system of the internal combustion engine; the cam shaft 18 is rotationally driven by a crank shaft through a transmitting mechanism 23; and a cooling water pump 50 is attached to a cylinder head cover 6 which is attached to the cylinder head 5, and is rotationally driven by means of the cam shaft 18. A connection part between a rotary shaft 53 of the cooling pump 50 and the cam shaft 18 is arranged inside a chamber 62 housing the transmitting mechanism 23. The rotary shaft 53 of the cooling pump 50 is connected to the cam shaft 18 through a magnet coupling.

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